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COMMITTEE OF EXPERTS ON THE TRANSPORT OF DANGEROUS GOODS

Sub-Committee of Experts on the Transport of Dangerous Goods
(Thirteenth session, Geneva, 7-17 July 1997, agenda item (3 (d))

DRAFT AMENDMENTS TO THE MODEL REGULATIONS ON THE TRANSPORT OF DANGEROUS GOODS

Other draft amendments

Request for a new UN entry "Dangerous Goods in Equipment or Apparatus"

Transmitted by the Expert from the United States of America

1. The ICAO Technical Instructions include an entry "Dangerous Goods in Equipment or Dangerous Goods in Apparatus". This entry was adopted to provide an exception for machinery or apparatus containing small quantities of dangerous goods from the UN packaging tests and to provide a more practical means of describing machinery or apparatus containing small quantities of dangerous goods. The quantities and types of dangerous goods contained are consistent with those authorized for transport under limited quantity provisions. The entry is necessary because the mass of the machinery or apparatus and its packaging as offered for transport typically exceed the gross mass allowed under the limited quantity provisions.

2. The ICAO entry applies to machinery or apparatus containing dangerous goods that are integral elements of the machinery or apparatus and only for machinery or apparatus for which a specific entry in the dangerous goods list does not exist. The dangerous goods are required to be tightly contained within the machinery or apparatus in a manner which precludes their release from the machinery or apparatus during transport. These entries are currently assigned ICAO identification number 8001 because they are not listed in the Dangerous goods List. The expert from the United States is proposing that the Sub-Committee adopt such an entry.

3. In the ICAO Technical Instructions the entry "Dangerous Goods in Equipment or Dangerous Goods in Apparatus" is assigned to a hazard class or classes on the basis of the dangerous goods contained in the equipment or apparatus. However, considering the small quantities of dangerous goods contained and the means of containment, the expert from the United States believes a Class 9 designation is appropriate. This approach is similar to the approach taken in the case of other entries such as Chemical Kits or First Aid Kits.

Proposal

3. It is proposed that the following be incorporated in the Recommendations:

a) In the Dangerous Goods List add the following entry:

UN No.	Name and Description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited Quantities	Packagings and IBC's		Portable Tanks	
							Packing Instruction	Special Require-ments	Portable Tank Instruction	Special Require-ments
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
33xx	DANGEROUS GOODS IN EQUIPMENT or DANGEROUS GOODS IN APPARATUS	9				NONE	P9xx			

b) Add the following packing instruction in Part 4 of the Recommendations:

P9XX	PACKING INSTRUCTION P9XX	P9XX

The general requirements of Chapter 4.1 shall apply except paragraphs 4.1.1.3, 4.1.1, 4.1.1.10, 4.1.1.12 and 4.1.1.14. Machinery and apparatus may only contain dangerous goods which are authorized to be transported under limited quantity provisions as indicated in column 7 of the Dangerous Goods List. The quantity of dangerous goods in equipment or apparatus shall not exceed either the quantity specified in column 7 or paragraph (e) below, whichever is the lowest quantity, for each dangerous goods contained. If the machinery or apparatus contains more than one item of dangerous goods, the individual substances shall not be capable of reacting dangerously (see 4.1.1.6). Dangerous goods in machinery or apparatus shall be packed in strong outer packagings unless the receptacles containing the dangerous goods are afforded adequate protection by the construction of the machinery or apparatus. The nature of the containment shall be such that:

a) damage to receptacles containing the dangerous goods transportation is unlikely; and

b) in the event of damage to receptacles containing the dangerous goods, no leakage of the dangerous goods from the machinery or apparatus is possible. A leakproof liner may be necessary;

c) Receptacles containing dangerous goods shall be so secured or cushioned as to prevent their breakage or leakage and so as to control their movement within the machinery or apparatus during normal conditions of transport. Cushioning material shall not react dangerously with the content of the receptacles. Any leakage of the contents shall not substantially impair the protective properties of the cushioning material;

d) For Division 2.2 gases, the inner cylinder or receptacle, its contents and filling density shall be to the satisfaction of the competent authority in which the cylinder or receptacle is filled;

e) The total net quantity of dangerous goods contained in one item of machinery or apparatus shall not exceed the following:

   i) 1 kg in the case of solids;
   ii) 0.5 L in the case of liquids;
   iii) 0.5 kg in the case of Division 2.2 gases, or any combination thereof.

'Package orientation' labels meeting the specifications of ISO Standard 780-1985 shall be affixed on at least two opposite vertical sides with the arrows pointing in the correct direction only when required to ensure liquid dangerous goods remain in their intended orientation.

The machinery or apparatus or the packagings in which it is contained shall be marked 'Dangerous goods in machinery' or 'Dangerous goods in apparatus', as appropriate.